

SOIL REMEDY ALTERNATIVE S4c: SOIL VAPOR EXTRACTION (Annual Costs)

remedy area:		0.8	acres	Total:		\$278,013
1. Utilities/Carbon						\$137,649
Assume	400	Total SVE system horsepower				
Assume	4,380	System run-time (hours/year)				
Assume	0	per kilowatt hour		Electrical Total		\$130,649
Assume	4	Carbon changes at		per change		\$7,000
2. Fluid Profiling/Air Emissions Analytical Costs						\$4,590
Assume	2	VOC in water analysis		\$125	per sample	\$250
Assume	2	SVOC in water analysis		\$250	per sample	\$500
Assume	2	RCRA metals in water analysis		\$100	per sample	\$200
Assume	2	TPH in water analysis		\$60	per sample	\$120
Assume	2	RCI in water analysis		\$110	per sample	\$220
Assume	12	TO-14 analysis		\$275	per sample	\$3,300
3. System Operation						\$49,657
Assume	1	technician				
Assume	3	hours of travel to/from the site from Houston, TX		\$86	per hour	\$258
Assume	16	hours of system inspection, sampling, and maintenance		\$88	per hour	\$1,408
Assume	3	per diem/lodging/truck/fuel		\$260	per day	\$693
Assume	1	airfare and parking costs of		\$650	round trip	\$650
Assume	1	field supply cost of		\$100	per inspection	\$100
Assume	12	events at		\$5,318	per event	\$37,312
Assume	1	10% of wells to be replaced annually at 50% cost		\$12,345	lump sum	\$12,345
4. Fluid Disposal						\$6,720
Assume	2,133	gallons of hazardous water disposal		\$2.50	per gallon	\$5,333
Assume	11	hours of vacuum truck (includes transport)		\$95	per hour	\$1,013
Assume	1	Truck washout		\$350	each	\$373
5. Project Management & Reporting						\$33,062
Assume	4	System operation report		\$3,000	Lump Sum	\$12,000
Assume	1	AMEC project management at 10% of all other cost				\$21,062
8. Contingency						\$46,336
Assume	1	Continegency				\$46,336